

METHODS AND APPARATUS FOR COMPUTED
TOMOGRAPHIC CARDIAC OR ORGAN IMAGING

ABSTRACT OF THE DISCLOSURE

One aspect of the present invention is a method for imaging an organ of a patient that includes steps of: scanning a volume of a patient's body including an organ of the patient with a computed tomographic (CT) imaging system having a radiation source and detector coupled to a rotating gantry, the detector array having a
5 z-direction parallel to an axis of rotation of the gantry and an x-direction transverse to the z-direction; acquiring attenuation data from a plurality of staggered half detector segments of the detector array; and reconstructing an image including the patient's organ using the acquired attenuation data.